

WHAT IS CLAIMED IS:

1. A sheet material trimming apparatus, comprising:
a first cutter arranged to trim an edge of a sheet material in a first direction;
a second cutter arranged to trim an edge of the sheet material in a second direction different from the first direction; and
a drive system having a drive roller for advancing the sheet material in the first direction by rotation of the drive roller and for translating the sheet material in the second direction by translation of the drive roller.
2. The apparatus of Claim 1, wherein the first cutter includes a rotary blade movable in the first direction.
3. The apparatus of Claim 1, wherein the second cutter includes a rotary blade movable in the second direction, and the second direction is perpendicular to the first direction.
4. The apparatus of Claim 1, comprising a third cutter arranged parallel to the first cutter, the first and third cutters arranged to trim opposite sides of the sheet material.

5. The apparatus of Claim 4, comprising a fourth cutter parallel to the second cutter, the second and fourth cutters arranged to trim opposite sides of the sheet material.

6. The apparatus of Claim 1, wherein the drive roller is mounted on a drive shaft and rotation of the drive shaft acts to both rotate and translate the drive roller.

7. The apparatus of Claim 6, comprising an engage mechanism having a first position and a second position, and wherein rotation of the drive shaft with the engage mechanism at the first position causes the drive roller to rotate, and rotation of the drive shaft with the engage mechanism at the second position causes the drive roller to translate.

8. The apparatus of Claim 6, comprising a stopper which prevents rotation of the drive roller when the engage mechanism is in the second position.

9. The apparatus of Claim 6, comprising a lock which locks the drive roller to the drive shaft when the engage mechanism is in the first position.

10. The apparatus of Claim 6, wherein the engage mechanism is rotatable from the first position to the second position.

11. The apparatus of Claim 6, wherein the drive shaft includes an external thread and the drive roller includes an internal thread engaging member which slides in the external thread.

12. An apparatus for trimming sheet material, comprising:
cutting means for trimming a first edge and a second edge of a sheet material in a first direction and a second direction; and

drive means for moving the sheet material in two perpendicular directions for trimming the first and second edges with the cutting means, the drive means moving the sheet material in two perpendicular directions by rotating and translating a roller.

13. The apparatus of Claim 12, wherein the drive means includes a threaded drive shaft for rotating and translating the roller.

14. The apparatus of Claim 13, comprising an engage means having a first position and a second position, and wherein rotation of the drive shaft with the engage mechanism at the first position causes the drive roller to rotate, and rotation of the drive shaft with the engage mechanism at the second position causes the drive roller to translate.

15. The apparatus of Claim 14, comprising stop means for preventing rotation of the drive roller when the engage means is translating.

16. The apparatus of Claim 13, comprising lock means for locking the drive roller to the draft shaft when the engage mechanism is at the first position.

17. The apparatus of Claim 12, wherein the cutting means includes first and second perpendicular cutters.

18. A method for trimming sheet material comprising:
feeding a sheet material into a trimming mechanism;
advancing the sheet material in a first direction to a first trimming position by rotation of a drive roller;
trimming a first side of the sheet material;
translating the sheet material in a second direction to a second trimming position by translation of the drive roller; and
trimming a second side of the sheet material.

19. The method of Claim 18, comprising, after advancing the sheet material in the first direction and before translating the sheet material in the second direction, engaging a stop member with the drive roller to prevent rotation of the drive roller.

20. A booklet making system for assembling plural sheets into a bound stack, comprising:

a drive system for advancing sheet material in a first direction; and
a sheet material trimming apparatus for receiving the sheet material
advanced by the drive system, the sheet material trimming apparatus including a
first cutter arranged to trim an edge of a sheet material in a first direction;

a second cutter arranged to trim an edge of the sheet material in a
second direction different from the first direction, and wherein the drive system is
configured to translate the sheet material in a second direction by translation of the
drive roller.

21. The system of Claim 20, wherein the first cutter includes a rotary
blade movable in the first direction.

22. The system of Claim 20, wherein the second cutter includes a
rotary blade movable in the second direction, and the second direction is
perpendicular to the first direction.

23. The system of claim 20, comprising a third cutter arranged parallel
to the first cutter, the first and third cutters arranged to trim opposite sides of the
sheet material.

24. The system of claim 23, comprising a fourth cutter parallel to the
second cutter, the second and fourth cutters arranged to trim opposite sides of the
sheet material.

25. The system of claim 20, wherein the drive roller is mounted on a drive shaft and rotation of the drive shaft acts to both rotate and translate the drive roller.

26. The system of claim 25, comprising an engage mechanism having a first position and a second position, and wherein rotation of the drive shaft with the engage mechanism at the first position causes the drive roller to rotate, and rotation of the drive shaft with the engage mechanism at the second position causes the drive roller to translate.